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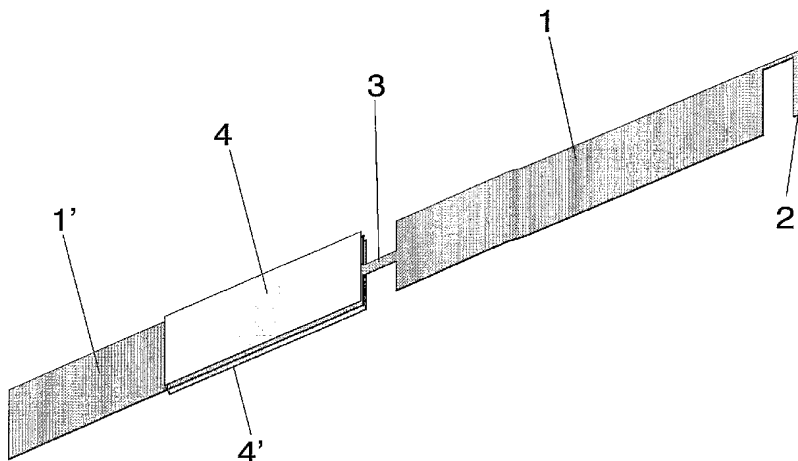
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[Continued on next page]

(54) Title: HANDSET WITH ELECTROMAGNETIC BRA



(57) Abstract: The present invention relates to a handset and generally of any handheld device, which includes an antenna for receiving and transmitting electromagnetic wave signals. More in particular, the invention is related to handsets of the clamshell or flip-phone type. An electromagnetic bra structure is introduced to correct the position of the lobes of the handheld radiation pattern, so that the radiation and sensitivity of the hand held device is increased in the horizontal plane or generally to the other desired directions. The electromagnetic bra structure comprises at least one conducting surface arranged over at least one side of a ground plane of the handset, so that a resonance circuit having a high impedance at an operating frequency of the antenna is established, to block currents and electromagnetic fields from entering a region of the ground plane.

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